

22 SEP 2004

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PCT - 03 - 01	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/CA 03/00380	18/03/2003	26/03/2002	
Applicant WELICHEM BIOTECH INC.			
accounting to Attack To. A copy is being to		nority and is transmitted to the applicant	
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.	
1. Basis of the report			
 With regard to the language, the i language in which it was filed, unle 	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the	
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this	
b. With regard to any nucleotide and was carried out on the basis of the	d/or amino acid sequence disclosed in the into sequence listing; nal application in written form.	ternational application, the international search	
filed together with the inter	rnational application in computer readable form	ı .	
	this Authority in written form.		
	this Authority in computer readble form.		
the statement that the sub- international application as	sequently furnished written sequence listing do	bes not go beyond the disclosure in the	
		identical to the written sequence listing has been	
2. Certain claims were foun	id unsearchable (See Box I).	·· ·· ·· ·· · · · · · · · · · · · · ·	
3. X Unity of invention is lack			
4. With regard to the title,			
the text is approved as sub	omitted by the applicant.		
	ed by this Authority to read as follows:		
DITHIOLOPYRROLONE DERIVISEASES	VATIVES USEFUL IN THE TREATM	MENT OF PROLIFERATIVE	
5. With regard to the abstract,			
the text is approved as sub the text has been established within one month from the co	mitted by the applicant. ed, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may, rt, submit comments to this Authority.	
	hed with the abstract is Figure No.	•	
. The agure of the drawings to be publis			
as suggested by the applica	=	None of the figures	
	ant.	None of the figures.	

INTERNATIONAL SEARCH REPORT

International Application No

A 03/00380

A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 C07D495/04 A61K31/407 A61P35/00

C07D519/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{lll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C07D} & \mbox{A61K} & \mbox{A61P} \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, EMBASE, BEILSTEIN Data, PAJ, CHEM ABS Data

	ENTS CONSIDERED TO BE RELEVANT	the relevant passages	Relevant to claim No.	
Category °	Citation of document, with indication, where appropriate, of	the leavant passages		
X	WO 99 12543 A (CHEN GENHUI ;L (CA); WEBSTER JOHN MALCOLM (C 18 March 1999 (1999-03-18) cited in the application Claims 1, 3-4, 10, 13, 16; co XN1, XN3; Table on p. 12 Figur	1-7		
x	CELMER, WALTER D. ET AL: "A hydrolysis product of thiolut aureothricin" ANTIBIOTICS ANN. 1953-54, PRO ANTIBIOTICS (WASH., D.C.), 19 622-625, XP009011765 Compounds (X) and (XI); p. 62	in and C. SYMPOSIUM 53, pages	1-7	
X Fu	ther documents are listed in the continuation of box C.	Patent family members are lis	ted in annex.	
"A" docum cons "E" earlier filing "L" docum which citatis "O" docum other	nent defining the general state of the art which is not idered to be of particular relevance or document but published on or after the international date on the control of	"T" later document published after the or priority date and not in conflict cited to understand the principle of invention. "X" document of particular relevance; to cannot be considered novel or calinvolve an inventive step when the "Y" document of particular relevance; to cannot be considered to involve a document is combined with one of ments, such combination being of in the art. "&" document member of the same pa	with the application but ir theory underlying the the claimed invention not be considered to e document is taken alone the claimed invention in inventive step when the ir more other such docu- povious to a person skilled	
Date of the	e actual completion of the international search	Date of mailing of the international		
	18 June 2003	2,4 11. 2	UU3	
Name and	1 mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer		

INTERNATIONAL SEARCH REPORT

International Application No PARA 03/00380

		A 03/00300
	stion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category *	Citation of document, with indication, where appropriate, of the relevant passages	
X	GB 2 173 499 A (ICI PLC) 15 October 1986 (1986-10-15) Claims 1, 4-6; formula (I); Table I, compounds 4-5, 12, 16, 22; example 1	1,6
X	PATENT ABSTRACTS OF JAPAN vol. 012, no. 358 (C-531), 26 September 1988 (1988-09-26) & JP 63 112586 A (NIPPON KAYAKU CO LTD), 17 May 1988 (1988-05-17) Formula (VI) abstract	1,6
X	WO 94 28001 A (SMITHKLINE BEECHAM PLC; BAGGALEY KEITH HOWARD (GB); BROOM NIGEL JO) 8 December 1994 (1994-12-08) Claims 1-2; formula (I)	1,6
P,X	LAMARI L. ET AL.: "New Dithiolopyrrolone Antibiotics from Saccharothrix sp. SA 233. I. Taxonomy, Fermentation, Isolation and Biological Activities" J. ANTIBIOTICS, vol. 55, no. 8, 2002, pages 696-701, XP009011640 Compounds 1 and 2	1,6



Box	Observations where certain stains were town
	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	national Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3 A	as only some of the required additional search fees were timely paid by the applicant, this International Search Report overs only those claims for which fees were paid, specifically claims Nos.:
	to required additional search fees were timely paid by the applicant. Consequently, this International Search Report is is stricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7 (all in part)
Remark on	Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International Application No. PCTCA 03 00380

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7 (all in part)

Dithiolopyrrolone derivatives substituted in 6-position by an (unsaturated hydrocarbon)carbonyl-amine and their use as antiproliferative agents

2. claims: 1-7 (all in part)

6-Amido-dithiolopyrrolone derivatives substituted in 4-position by a cyclic moiety and their use as antiproliferative agents

3. claims: 8-10

6-Dimethylaminodithiolopyrrolone derivatives and their use as antiproliferative agents

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention provides novel dithiolopyrrolone compounds of formula

and their salts, which are useful as treatment for cahcer and other proliferative diseases. The present invention also provides therapeutic compositions comprising particularly useful types of dithiolopyrrolones, the salts thereof, and methods of using the compounds within such types, particularly in treating proliferative diseases such as cancer.

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INTERNATIONAL SEARCH REPORT

			ATIONAL SEAF				Application No 03/00380
cit	Patent document ed in search report		Publication date		Patent family member(s)		Publication date
	9912543	A	18-03-1999	CA AU AU WO CN CN EP JP	2212237 759990 9057098 9912543 1360891 1276723 1009401 2001515861	D B2 B A B A1 B A F T B A1	05-03-1999 01-05-2003 29-03-1999 18-03-1999 31-07-2002 13-12-2000 21-06-2000 25-09-2001
GB	2173499	A	15-10-1986	AU DE FR JP ZA	5245986 3602148 2590573 61183290 8600175	A1 A1 A	07-08-1986 07-08-1986 29-05-1987 15-08-1986 29-10-1986
JP	63112586	Α	17-05-1988	NONE			
WO	9428001	A	08-12-1994	AU WO EP JP ZA	6928294 9428001 0699203 8510265 9403452	A1 A1 T	20-12-1994 08-12-1994 06-03-1996 29-10-1996 16-05-1995